

**Applicant:** Stephen E. Terry  
**Application No.:** 10/630,892

**REMARKS/ARGUMENTS**

After the foregoing Amendment, claims 1-3 and 12-14 are currently pending in this application. Claims 1-3 and 12-13 have been amended to overcome the claim objections and rejections included in the Office Action dated June 13, 2006. The Applicant submits that no new matter has been introduced into the application by the Amendment.

**Claim Objections**

Claims 2, 3, 13 and 14 are objected to because the Examiner prefers a comma after the dependent claim numbers. The Applicant has amended the claims accordingly and respectfully request that the Examiner withdraw the objection to claims 2, 3, 13 and 14.

**Claim Rejections - 35 USC § 103(a)**

Claims 1-3 and 12-14 are rejected under 35 U.S.C 103(a) as being unpatentable over the Applicant's Admitted Prior Art in view of U.S. Patent No. 6,556,820 (Le et al.).

The present invention is a wireless communication system and method of paging a plurality of wireless transmit/receive unit (WTRU) (i.e., UE) users belonging to a paging group. A point-to-multipoint (PtM) service is activated for the

WTRUs within a PtM service user group. A new temporary user specific identity is assigned to each of the WTRUs in response to activating the PtM service. The temporary user specific identities are used to synchronize, on a common channel, WTRU specific paging occasions with WTRU user group paging occasions. A determination is made as to whether a paging occasion is associated with the PtM service or a point-to-point (PtP) service. If the paging occasion is determined to be associated with a PtM service, and a predetermined maximum number of users associated with the paging occasion is exceeded, a plurality of subgroup paging identities are generated, wherein each paging subgroup identity is associated with a particular paging subgroup within the PtM service user group, a particular paging channel and a particular paging occasion.

A physical paging channel may be selected from a list of paging channels by determining a selected paging channel number based on a temporary identity mod  $K$ , where  $K$  is the number of physical paging channels that exist within a cell.

A unique radio frame number may be used to identify a particular paging occasion on the selected physical paging channel. The unique radio frame number may be determined as a function of a temporary identity div  $K$  and a discontinuous reception (DRX) cycle.

The Applicant respectfully disagrees with the Examiner's interpretation of the Applicant's Admitted Prior Art, where the Examiner asserts that

synchronization of the WTRU specific paging occasions 105 with WTRU user group paging occasions 110 is disclosed. The synchronization refers to occasions occurring at substantially the same time. In order to further clarify the claimed invention, claims 1 and 12 have been amended to clarify that WTRU specific paging occasions are synchronized with WTRU user group paging occasions such that each WTRU specific paging occasion occurs at substantially the same time as a corresponding WTRU user group paging occasion.

The Examiner is respectfully requested to review Figure 1 (Prior Art) in view of Figure 2 (the claimed invention). As described by Applicant's Admitted Prior Art in paragraph [0023] and Figure 1, WTRU specific paging occasions and WTRU user group paging occasions are not synchronized, and thus do not occur at the same time (see the "TIME" axis of Figure 1, where none of the WTRU specific paging occasions (UP) 105 occur at the same time as the WTRU user group paging occasions (GP) 110).

In accordance with the claimed invention, as shown in Figure 2, the temporary user specific identities are used to synchronize, on a common channel, WTRU specific paging occasions with WTRU user group paging occasions such that each WTRU specific paging occasion occurs at substantially the same time as a corresponding WTRU user group paging occasion.

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The Applicant submits that the prior art of record fails to teach or suggest all of the features recited in amended claims 1 and 12. Furthermore, claims 2, 3, 13 and 14 are dependent upon claims 1 and 12, respectively, and are also believed to be patentable over the prior art of record for the reasons presented above.

Based on the arguments presented above, the withdrawal of the rejection of claims 1-3 and 12-14 under 35 U.S.C 103(a) is respectfully requested.

### **Conclusion**

If the Examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephone interview will help to materially advance the prosecution of this application, the Examiner is invited to contact the undersigned by telephone at the Examiner's convenience.

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In view of the foregoing Amendment and remarks, the Applicant respectfully submits that the present application, including claims 1-3 and 12-14, is in condition for allowance and a notice to that effect is respectfully requested.

Respectfully submitted,

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